



Wednesday, January 16, 2019

Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

Project ID: NPDES QUARTERLY JAN 2019  
Sample ID#s: CC26421

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 16, 2019

FOR: Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

### Sample Information

Matrix: WASTE WATER  
Location Code: BARNHARD  
Rush Request: Standard  
P.O.#: G-10513

### Custody Information

Collected by: KG  
Received by: B  
Analyzed by: see "By" below

### Date

01/09/19  
01/09/19

### Time

7:00  
16:06

## Laboratory Data

SDG ID: GCC26421  
Phoenix ID: CC26421

Project ID: NPDES QUARTERLY JAN 2019  
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.031	0.003	mg/L	1	01/12/19	CPP	E200.7
B.O.D./5 day	5.9	4.0	mg/L	2	01/10/19 11:30	RVM/RM	SM5210B-11
B.O.D./5 day End Incubation					01/15/19 14:29	RVM/RM	SM5210B-11
C.O.D.	328	10	mg/L	1	01/11/19	KMH	SM5220D-11
Ammonia as Nitrogen	1.12	0.25	mg/L	5	01/11/19	KDB	E350.1
Nitrite-N	0.576	0.020	mg/L	2	01/09/19 21:09	TB	E353.2
Nitrate-N	10.8	0.20	mg/L	10	01/09/19 21:02	TB	E353.2
Phenolics	< 0.015	0.015	mg/L	1	01/11/19	KMH	E420.4
Nitrogen Tot Kjeldahl	9.82	0.50	mg/L	5	01/11/19	KDB	E351.1
Total Nitrogen	21.2	0.10	mg/L	1	01/11/19	KDB	SM4500NH3/E300.0-97
Phosphorus, as P	3.34	0.10	mg/L	10	01/11/19	JR	SM4500PE-11
Total Suspended Solids	14	5.0	mg/L	1	01/11/19	MM/DA	SM2540D-11
Total Metals Digestion	Completed				01/11/19	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Ortho-Phosphate was not field filtered within 15 minutes of collection.

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 16, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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## QA/QC Report

January 16, 2019

### QA/QC Data

SDG I.D.: GCC26421

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 463078 (mg/L), QC Sample No: CC26417 (CC26421)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.015	0.0133	12.0	110			112			75 - 125	20



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## QA/QC Report

January 16, 2019


### QA/QC Data

SDG I.D.: GCC26421

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 463019 (mg/L), QC Sample No: CC26166 (CC26421)													
Total Suspended Solids	BRL	5.0	14	14	NC	93.0						85 - 115	
QA/QC Batch 462835 (mg/L), QC Sample No: CC26598 (CC26421)													
C.O.D.	BRL	10	31	29	NC	105			102			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 462845 (mg/L), QC Sample No: CC26661 (CC26421)													
B.O.D./5 day	BRL	2.0	5.7	5.4	NC	100			101			70 - 130	20
B.O.D./5 day GGA BOD						113						84 - 115	20
QA/QC Batch 463015 (mg/L), QC Sample No: CC26853 (CC26421)													
Phosphorus, as P	BRL	0.01	3.26	3.53	8.00	97.6			NC			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 462756 (mg/L), QC Sample No: CC26319 (CC26421)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	107			107			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	105			104			90 - 110	20
QA/QC Batch 462894 (mg/L), QC Sample No: CC26144 (CC26421)													
Ammonia as Nitrogen	BRL	0.05	0.19	0.21	NC	97.1			93.0			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	1.84	2.09	12.7	101			101			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 462771 (mg/L), QC Sample No: CC25327 (CC26421)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	107			92.5			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference

  
Phyllis Shiller, Laboratory Director  
January 16, 2019

Wednesday, January 16, 2019

Criteria: None

State: MA

## Sample Criteria Exceedances Report

**GCC26421 - BARNHARD**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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## Analysis Comments

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SDG I.D.: GCC26421

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

